PATENT COOPERATION TREATY

From	the

INTERNATIONAL SEARCHING AUTHORITY

BEDINGFIELD, Herbert M.			PCT
CANTOR COLBURN LLP 20 Church Hartford CT 06103 USA	Street 22nd floor	WRI INTERNATIO	TTEN OPINION OF THE DNAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)
		Date of mailing (day/month/year) 2	5 SEPTEMBER 2008 (25.09.2008)
Applicant's or agent's file reference		FOR FURTHER AC	
INE-0110-PCT			ee paragraph 2 below
International application No. PCT/US2008/059551	International filing date		Priority date(day/month/year)
International Patent Classification (IPC)	07 APRIL 2008 (0	7.04.2008)	06 APRIL 2007 (06.04.2007)
A61B 17/04(2006.01)i Applicant INTERVENTIONAL THERAF	· · · · · · · · · · · · · · · · · · ·	and if C	
1. This opinion contains indications rela	ting to the following iten	ns:	
Box No. I Basis of the opin	nion		
Box No. II Priority			
Box No. III Non-establishm	ent of opinion with regar	d to novelty, inventive s	tep and industrial applicability
Box No. IV Lack of unity of	of invention		
Box No. V Reasoned states citations and exp	ment under Rule 43bis.1(a planations supporting suc	a)(i) with regard to novel h statement	ty, inventive step or industrial applicability;
Box No. VI Certain docume			
Box No. VII Certain defects	in the international appli	ication	
Box No. VIII Certain observat	tions on the international	application	
other than this one to be the IPEA and opinions of this International Searchin If this opinion is, as provided above, co	Authority ("IPEA") except the chosen IPEA has not g Authority will not be so onsidered to be a written appropriate, with amendmentation of 22 months from A/220.	t that this does not apply ified the International But to considered. opinion of the IPEA, the tents, before the expiration	where the applicant chooses an Authority breau under Rule 66. I bis(b) that written capplicant is invited to submit to the con of 3 months from the date of mailing

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
Government Complex-Daejeon, 139
Seonsa-ro, Seo-gu, Daejeon 302
-701, Republic of Korea Facsimile No. 82-42-472-7140

Date of completion of this opinion Authorized officer

25 SEPTEMBER 2008 (25.09.2008) OH Seung Jae

Telephone No.82-42-481-8469



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/059551

Во	x No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of:
	the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:
l	a. type of material
l	a sequence listing table(s) related to the sequence listing
	b. format of material
	on paper
	in electronic form
	c. time of filing/furnishing
	contained in the international application as filed. filed together with the international application in electronic form.
	furnished subsequently to this Authority for the purposes of search.
4.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. .	Additional comments:
	·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US2008/059551

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims 2,3	YES
	Claims 1, 4-6	NO NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-6	NO NO
Industrial applicability (IA)	Claims 1-6	YES
	Claims NONE	NO

2. Citations and explanations:

Reference is made in the present opinion to the following documents (D) cited in the search report.

D1: US 6641592 B1 (JUDE S. SAUER AND JOHN F. HAMMOND) 4 November 2003 D2: US 6368334 B1 (JUDE S. SAUER) 9 April 2002

1. Novelty and Inventive Step

1.1 Claim 1

Document D1, which is considered to represent the most relevant state of the art, discloses a system for closure of a wound in a patient like a puncture hole in a blood vessel, with a suture having a first apparatus for applying a suture capable of closing the wound and a second apparatus for securing a sleeve member over the suture to secure the wound closed.

As all of the features of claim 1 are disclosed in D1, this claim is anticipated by D1 (see abstract; Col.7, Lines 15-45). Therefore, claim 1 lacks novelty under PCT Article 33(2).

1.2 Claims 2 and 3

D1 does not disclose the features of the crimping and cutting device portion which are configured to detach from the suturing device portion and to nest within a portion of the suturing device portion. But D2 discloses a kit comprising a suturing device and a suture crimping device which can be combined through the cannula (see Col. 11, Lines 1-11; Figs. 28-30). It would be obvious to a person skilled in the art to apply the features of D2 to the tissue suturing apparatus of D1 to arrive at the surgical apparatus of claims 2 and 3. Thus, claims 2 and 3 do not involve an inventive step under PCT Article 33(3).

1.3 Claim 4

The additional feature of claim 4 dependent on claim 1 is not different from the feature of D1 in including a tissue engaging section of the tissue suturing apparatus. Accordingly, claim 4 is substantially the same as D1. Therefore, claim 4 lacks novelty under PCT Article 33(2).

(Continued on Supplemental Box.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

1.4 Claims 5 and 6

D1 discloses a system for closure of a wound in a patient with a suture material having two ends comprising: a first apparatus comprising a housing, a shaft having a first end and a second end in which said first end is coupled to the housing, a tissue engaging section coupled to said second end of said shaft, and a first needle and a second needle, wherein said first and second needles extend from the housing through the shaft into said tissue engaging section; and a second apparatus having means for securing a sleeve member over the two ends of the suture material to maintain said wound closed at said first and second locations in said tissue.

All of the technical features of claims 5 and 6 are also inherently disclosed in D1. Accordingly, claims 5 and 6 of the present invention are anticipated by D1. Therefore, these claims lack novelty under PCT Article 33(2).

2. INDUSTRIAL APPLICABILITY

Claims 1-6 are industrially applicable under PCT Article 33(4).

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
INE-0110-PCT		l as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2008/059551	07 APRIL 2008 (07.04.2008)	06 APRIL 2007 (06.04.2007)
Applicant		
INTERVENTIONAL THERAPI	ES et al	
This International papers apport has been prop	11 11 V 4 1 1 1 Carallian Angles	
to Article 18. A copy is being transmitted to the	ared by this international Scarcting Authors he International Bureau.	ity and is transmitted to the applicant according
This international search report consists of a to		
lt is also accompanied by a co	ppy of each prior art document cited in this re	port.
1. Basis of the report		
	ternational search was carried out on the bas	sis of :
	ion in the language in which it was filed	
a translation of the internation furnished for t	ational application into the purposes of international search (Rules 12)	, which is the language of a 2.3(a) and 23.1(b))
b. This international search report	t has been established taking into account the s Authority under Rule 91 (Rule 43.6bis(a)).	* * * * * * * * * * * * * * * * * * * *
	s Authority under Rule 91 (Rule 43.6 <i>bis</i> (a)). and/or amino acid sequence disclosed in the	e international application, see Box No. I.
2. Certain claims were found un		·
3. Unity of invention is lacking (See Box No. III)	
4. With regard to the title,		
the text is approved as submitted	· · · · · · · · · · · · · · · · · · ·	
the text has been established by	this Authority to read as follows:	
		!
		,
5. With regard to the abstract,		
the text is approved as submitted		
	cording to Rule 38.2, by this Authority as it	
may, within one month from the	e date of mailing of this international search r	report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be publ	**************************************	51
as suggested by the application of the application		
because the applicant failed	**	
because this figure better cl		
b. none of the figure is to be publis	hed with the abstract.	

A. CLASSIFICATION OF SUBJECT MATTER

A61B 17/04(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8: A61B 17/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKIPASS(KIPO internal) "suturing", "crimping", "wound closure", "blood vessel"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6641592 B1 (JUDE S. SAUER AND JOHN F. HAMMOND) 4 November 2003 See Abstract; Figs. 1-18; Col.7, Lines 15-67; Col.12, Lines 26-42.	1, 4-6
Y	, and an	2,3
Y	US 6368334 B1 (JUDE S. SAUER) 9 April 2002 See Abstract; Figs. 1-30; Col. 11, Lines 1-11.	2,3
A	US 6136010 A (D. BRUCE MODESITT, ET AL.) 24 October 2000 See Abstract; Figs. 1-13; Claims.	1-6
Α	US 7037315 B2 (GREGORY E.SANCOFF, ET AL.) 2 May 2006 See Abstract; Figs. 1-40; Claims.	1-6
Α	US 5643289 A (JUDE S. SAUER, ET AL.) 1 July 1997 See Abstract; Figs. 1-10; Claims.	1-6

Ĺ	Further	documents	are listed	in the	continuation	of Box C.



See patent family annex.

- Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25 SEPTEMBER 2008 (25.09.2008)

Date of mailing of the international search report

25 SEPTEMBER 2008 (25.09.2008)

Name and mailing address of the ISA/KR



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/059551

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6641592 B1	04.11.2003	US 2004-068272 A1 US 2004-068272 AA US 6641592 BA	08.04.2004 08.04.2004 04.11.2003
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2008/059551

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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